

Takeo Kanade

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129
papers

13,800
citations

48
h-index

117
g-index

137
ext. papers

16,770
ext. citations

6.5
avg, IF

6.52
L-index

#	Paper	IF	Citations
129	Shape and motion from image streams under orthography: a factorization method. <i>International Journal of Computer Vision</i> , 1992 , 9, 137-154	10.6	1763
128	The Extended Cohn-Kanade Dataset (CK+): A complete dataset for action unit and emotion-specified expression 2010 ,		1600
127	Multi-PIE. <i>Image and Vision Computing</i> , 2010 , 28, 807-813	3.7	1116
126	Convolutional Pose Machines 2016 ,		1075
125	Recognizing Action Units for Facial Expression Analysis. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2001 , 23, 97-115	13.3	925
124	Color information for region segmentation. <i>Computer Graphics and Image Processing</i> , 1980 , 13, 222-241		562
123	Kalman filter-based algorithms for estimating depth from image sequences. <i>International Journal of Computer Vision</i> , 1989 , 3, 209-238	10.6	436
122	A Multibody Factorization Method for Independently Moving Objects. <i>International Journal of Computer Vision</i> , 1998 , 29, 159-179	10.6	397
121	Cell population tracking and lineage construction with spatiotemporal context. <i>Medical Image Analysis</i> , 2008 , 12, 546-66	15.4	256
120	A physical approach to color image understanding. <i>International Journal of Computer Vision</i> , 1990 , 4, 7-38	10.6	253
119	The measurement of highlights in color images. <i>International Journal of Computer Vision</i> , 1988 , 2, 7-32	10.6	234
118	Geometric reasoning for single image structure recovery 2009 ,		218
117	Multi-PIE 2008 ,		218
116	Analysis of Rain and Snow in Frequency Space. <i>International Journal of Computer Vision</i> , 2010 , 86, 256-274	10.6	209
115	Detection, tracking, and classification of action units in facial expression. <i>Robotics and Autonomous Systems</i> , 2000 , 31, 131-146	3.5	200
114	Object Detection Using the Statistics of Parts. <i>International Journal of Computer Vision</i> , 2004 , 56, 151-177	10.6	188
113	Background Subtraction for Freely Moving Cameras 2009 ,		172

112	Automated face analysis by feature point tracking has high concurrent validity with manual FACS coding. <i>Psychophysiology</i> , 1999 , 36, 35-43	4.1	164
111	Parameter identification of robot dynamics 1985 ,		163
110	Experimental Evaluation of Nonlinear Feedback and Feedforward Control Schemes for Manipulators. <i>International Journal of Robotics Research</i> , 1988 , 7, 18-28	5.7	152
109	System Identification Modeling of a Small-Scale Unmanned Rotorcraft for Flight Control Design. <i>Journal of the American Helicopter Society</i> , 2002 , 47, 50-63	1.2	141
108	Panoptic Studio: A Massively Multiview System for Social Motion Capture 2015 ,		139
107	Shape from interreflections. <i>International Journal of Computer Vision</i> , 1991 , 6, 173-195	10.6	125
106	Video OCR: indexing digital news libraries by recognition of superimposed captions. <i>Multimedia Systems</i> , 1999 , 7, 385-395	2.2	115
105	A Closed-Form Solution to Non-Rigid Shape and Motion Recovery. <i>International Journal of Computer Vision</i> , 2006 , 67, 233-246	10.6	111
104	Robust Full-Motion Recovery of Head by Dynamic Templates and Re-registration Techniques. <i>International Journal of Imaging Systems and Technology</i> , 2003 , 13, 85-94	2.5	108
103	Tracking in unstructured crowded scenes 2009 ,		105
102	A visual odometer for autonomous helicopter flight. <i>Robotics and Autonomous Systems</i> , 1999 , 28, 185-193	3.5	102
101	Dense 3D Face Alignment from 2D Videos in Real-Time 2015 , 1,		97
100	Real-time topometric localization 2012 ,		91
99	A locally adaptive window for signal matching. <i>International Journal of Computer Vision</i> , 1992 , 7, 143-162	10.6	91
98	Understanding the phase contrast optics to restore artifact-free microscopy images for segmentation. <i>Medical Image Analysis</i> , 2012 , 16, 1047-62	15.4	90
97	Shape-From-Silhouette Across Time Part II: Applications to Human Modeling and Markerless Motion Tracking. <i>International Journal of Computer Vision</i> , 2005 , 63, 225-245	10.6	90
96	Ultrasound registration of the bone surface for surgical navigation. <i>Computer Aided Surgery</i> , 2003 , 8, 1-16		85
95	Spatially directed guidance of stem cell population migration by immobilized patterns of growth factors. <i>Biomaterials</i> , 2011 , 32, 2775-85	15.6	79

94	An image overlay system for medical data visualization. <i>Medical Image Analysis</i> , 2000 , 4, 67-72	15.4	79
93	Shape-From-Silhouette Across Time Part I: Theory and Algorithms. <i>International Journal of Computer Vision</i> , 2005 , 62, 221-247	10.6	72
92	Volumetric object modeling for surgical simulation. <i>Medical Image Analysis</i> , 1998 , 2, 121-32	15.4	71
91	Mode-seeking by Medoidshifts 2007 ,		71
90	GPU-accelerated real-time 3D tracking for humanoid locomotion and stair climbing 2007 ,		69
89	Learning scene-specific pedestrian detectors without real data 2015 ,		67
88	Panoptic Studio: A Massively Multiview System for Social Interaction Capture. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 190-204	13.3	67
87	Pose Robust Face Tracking by Combining Active Appearance Models and Cylinder Head Models. <i>International Journal of Computer Vision</i> , 2008 , 80, 260-274	10.6	59
86	Cell segmentation in phase contrast microscopy images via semi-supervised classification over optics-related features. <i>Medical Image Analysis</i> , 2013 , 17, 746-65	15.4	58
85	Efficient Two-phase 3D Motion Planning for Small Fixed-wing UAVs. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007 ,		54
84	Meticulously detailed eye region model and its application to analysis of facial images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006 , 28, 738-52	13.3	53
83	Visual Odometry by Multi-frame Feature Integration 2013 ,		52
82	Region segmentation: Signal vs semantics. <i>Computer Graphics and Image Processing</i> , 1980 , 13, 279-297		50
81	Image Registration Using Wavelet-Based Motion Model. <i>International Journal of Computer Vision</i> , 2000 , 38, 129-152	10.6	48
80	WYSIWYF Display: A Visual/Haptic Interface to Virtual Environment. <i>Presence: Teleoperators and Virtual Environments</i> , 1999 , 8, 412-434	2.9	46
79	Dense 3D Face Alignment from 2D Video for Real-Time Use. <i>Image and Vision Computing</i> , 2017 , 58, 13-24, 3, 7	3.7	45
78	Using shadows in finding surface orientations. <i>Computer Vision, Graphics, and Image Processing</i> , 1983 , 22, 145-176		45
77	Techniques for fast and accurate intrasurgical registration. <i>Journal of Image Guided Surgery</i> , 1995 , 1, 17-29		40

76	Gyro-aided feature tracking for a moving camera: fusion, auto-calibration and GPU implementation. <i>International Journal of Robotics Research</i> , 2011 , 30, 1755-1774	5.7	35
75	Dynamic seethroughs: Synthesizing hidden views of moving objects 2009 ,		31
74	Tracking Human Pose by Tracking Symmetric Parts 2013 ,		30
73	Augmented reality imaging technology for orthopaedic surgery. <i>Operative Techniques in Orthopaedics</i> , 2000 , 10, 82-86	0.3	30
72	IMU Self-Calibration Using Factorization. <i>IEEE Transactions on Robotics</i> , 2013 , 29, 493-507	6.5	27
71	Type classification, color estimation, and specific target detection of moving targets on public streets. <i>Machine Vision and Applications</i> , 2005 , 16, 116-121	2.8	26
70	Modelling sensors: Toward automatic generation of object recognition program. <i>Computer Vision, Graphics, and Image Processing</i> , 1989 , 48, 50-79		26
69	Robustly Aligning a Shape Model and Its Application to Car Alignment of Unknown Pose. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 1860-76	13.3	24
68	A Unified Gradient-Based Approach for Combining ASM into AAM. <i>International Journal of Computer Vision</i> , 2007 , 75, 297-309	10.6	23
67	Virtualized reality: perspectives on 4D digitization of dynamic events. <i>IEEE Computer Graphics and Applications</i> , 2007 , 27, 32-40	1.7	23
66	Measurement and comparison of humanoid H7 walking with human being. <i>Robotics and Autonomous Systems</i> , 2004 , 48, 177-187	3.5	23
65	Geometric reasoning for single image structure recovery		23
64	Integrating LIDAR into Stereo for Fast and Improved Disparity Computation 2011 ,		22
63	6D pose estimation of textureless shiny objects using random ferns for bin-picking 2012 ,		22
62	The asymmetry of image registration and its application to face tracking. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 807-23	13.3	19
61	An engineered approach to stem cell culture: automating the decision process for real-time adaptive subculture of stem cells. <i>PLoS ONE</i> , 2011 , 6, e27672	3.7	19
60	Multiaperture telecentric lens for 3D reconstruction. <i>Optics Letters</i> , 2011 , 36, 1050-2	3	18
59	Synthesizing a Scene-Specific Pedestrian Detector and Pose Estimator for Static Video Surveillance. <i>International Journal of Computer Vision</i> , 2018 , 126, 1027-1044	10.6	17

58	Heterogeneous Conditional Random Field: Realizing joint detection and segmentation of cell regions in microscopic images 2010 ,		17
57	Gradient space under orthography and perspective. <i>Computer Vision, Graphics, and Image Processing</i> , 1983 , 24, 182-199		17
56	Spatio-temporal Event Classification using Time-series Kernel based Structured Sparsity. <i>Lecture Notes in Computer Science</i> , 2014 , 2014, 135-140	0.9	17
55	Multi-View AAM Fitting and Construction. <i>International Journal of Computer Vision</i> , 2008 , 76, 183-204	10.6	16
54	Reconstruction of a Scene with Multiple Linearly Moving Objects. <i>International Journal of Computer Vision</i> , 2004 , 59, 285-300	10.6	16
53	Mobility and manipulation of a light-weight space robot. <i>Robotics and Autonomous Systems</i> , 1994 , 13, 1-12	3.5	16
52	Phase contrast time-lapse microscopy datasets with automated and manual cell tracking annotations. <i>Scientific Data</i> , 2018 , 5, 180237	8.2	16
51	Mechanical characterization of adult stem cells from bone marrow and perivascular niches. <i>Journal of Biomechanics</i> , 2012 , 45, 1280-7	2.9	14
50	3D measurement of feature cross-sections of foot while walking. <i>Machine Vision and Applications</i> , 2011 , 22, 377-388	2.8	14
49	Linear motion estimation for systems of articulated planes 2008 ,		14
48	Gaussian process motion graph models for smooth transitions among multiple actions. <i>Computer Vision and Image Understanding</i> , 2012 , 116, 500-509	4.3	13
47	Unwrapping the eye for visible-spectrum gaze tracking on wearable devices 2013 ,		13
46	Fast reactive control for illumination through rain and snow 2012 ,		12
45	Spherical approximation for multiple cameras in motion estimation: Its applicability and advantages. <i>Computer Vision and Image Understanding</i> , 2010 , 114, 1068-1083	4.3	12
44	Factorization-based calibration method for MEMS inertial measurement unit 2008 ,		12
43	Techniques for Fast and Accurate Intrasurgical Registration. <i>Computer Aided Surgery</i> , 1995 , 1, 17-29		12
42	Visual-inertial UAV attitude estimation using urban scene regularities 2011 ,		11
41	Mitosis detection for stem cell tracking in phase-contrast microscopy images 2011 ,		11

40	Locomotion among dynamic obstacles for the honda ASIMO 2007 ,		11
39	Optimal placement of a two-link manipulator for door opening 2009 ,		10
38	Restoring artifact-free microscopy image sequences 2011 ,		10
37	Anomaly detection through registration. <i>Pattern Recognition</i> , 1999 , 32, 113-128	7.7	10
36	Degeneracy of the Linear Seventeen-Point Algorithm for Generalized Essential Matrix. <i>Journal of Mathematical Imaging and Vision</i> , 2010 , 37, 40-48	1.6	8
35	Model based recognition of specular objects using sensor models. <i>CVGIP Image Understanding</i> , 1992 , 55, 155-169		8
34	Interactive cell segmentation based on correction propagation 2014 ,		7
33	Integrating grasp planning and visual feedback for reliable manipulation 2009 ,		7
32	People detection based on co-occurrence of appearance and spatiotemporal features 2008 ,		7
31	Efficient pulling motion of a two-link robot arm near singular configuration 2010 ,		6
30	Detection of hematopoietic stem cells in microscopy images using a bank of ring filters 2010 ,		6
29	Tailoring the trajectory of cell rolling with cytotactic surfaces. <i>Langmuir</i> , 2011 , 27, 15345-51	4	6
28	Picture processing system using a computer complex. <i>Computer Graphics and Image Processing</i> , 1973 , 2, 207-215		6
27	Active sample selection and correction propagation on a gradually-augmented graph 2015 ,		5
26	Automatic Clustering of Faces in Meetings 2006 ,		5
25	Experimental Evaluation of the Feedforward Compensation and Computed-Torque Control Schemes 1986 ,		5
24	Recognizing Action Units for Facial Expression Analysis. <i>Series in Machine Perception and Artificial Intelligence</i> , 2002 , 32-66	0.3	5
23	Discriminative data transform for image feature extraction and classification. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 452-9	0.9	5

22	Modeling the product manifold of posture and motion 2009 ,		4
21	On the sustained tracking of human motion 2008 ,		4
20	Mitosis detection of hematopoietic stem cell populations in time-lapse phase-contrast microscopy images 2012 ,		3
19	Development of a Video-Rate Stereo Machine.. <i>Journal of the Robotics Society of Japan</i> , 1997 , 15, 261-263.		3
18	PARES: A prototyping and reverse engineering system for mechanical parts-on-demand on the national network. <i>Journal of Manufacturing Systems</i> , 1993 , 12, 269-281	9.1	3
17	Face Alignment Refinement 2015 ,		2
16	Real-time dense 3D face alignment from 2D video with automatic facial action unit coding 2015 ,		2
15	Analysis of task feasibility for a home robot using prismatic joints 2010 ,		2
14	Area extraction of license plates using an artificial neural network. <i>Systems and Computers in Japan</i> , 1998 , 29, 55-64		2
13	Predicting driver operations inside vehicles 2008 ,		2
12	Automated Individualization of Deformable Eye Region Model and Its Application to Eye Motion Analysis 2007 ,		2
11	Segmentation and Recognition of Serial Numbers in License Plate. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2001 , 121, 1354-1361	0.1	2
10	Apoptosis detection for non-adherent cells in time-lapse phase contrast microscopy. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 59-66	0.9	2
9	Maneuver-based autonomous navigation of a small fixed-wing UAV 2013 ,		1
8	Cell segmentation via spectral analysis on phase retardation features 2013 ,		1
7	Realtime affine-photometric KLT feature tracker on GPU in CUDA framework 2009 ,		1
6	Humanoid navigation planning using future perceptive capability 2008 ,		1
5	Motion estimation using multiple non-overlapping cameras for small unmanned aerial vehicles 2008 ,		1

- 4 Appropriate lengths between phalanges of multijointed fingers for stable grasping. *Journal of Field Robotics*, **1984**, 1, 223-234 1
- 3 3D Measurement of Anatomical Cross-sections of Foot while Walking. *Transactions of the Society of Instrument and Control Engineers*, **2009**, 45, 199-207 0.1 1
- 2 Multi-subregion-based probabilistic approach to pose-invariant face recognition. *Systems and Computers in Japan*, **2006**, 37, 68-76
- 1 Recognition of Road Contours Using Delineators at Night. *IEEJ Transactions on Electronics, Information and Systems*, **2009**, 129, 932-939 0.1